PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: ARTHUR S. GARRETT FINNEGAN, HENDERSON, FARABOW, GARRETT AND DUNNER L.L.P. 1300 I STREET, N.W. WASHINGTON, DC 20005-3315	PCT NOTIFICATION OF TRANSMITTAL OF MARTHE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION Date of mailing
	(day/month/year)
Applicant's or agent's file reference 9367.054-304	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No.	International filing date
PCT/US04/09274	(day/month/year) 09 April 2004 (09.04.2004)
Applicant CYTOKINETICS, INC.	
The applicant is hereby notified that the international have been established and are transmitted here 1. The applicant is hereby notified that the international have been established and are transmitted here.	eport er d written opin. te International Searching Authority
Filing of amendments and statement and the circle with the cir	aims of the international application (see Rule 46):
When? The time limit of amendments is search report.	s normally two months from the date of transmittal of the international
Where? Directly to the International Bureau of WIPC 1211 Geneva 20, Switzerland, Facsimile No	•
For more detailed instructions, see the notes on the a	•
	ch report will be established and that the declaration under the International Searching Authority are transmitted herewith.
3. With regard to traprotest against payment of (an) addition	ional fee(s) under Rule 40.2, the applicant is notified that:
the protest together with the decision thereon has been request to forward the texts of both the protest and the	en transmitted to the International Bureau together with the applicant's he decision thereon to the designated Offices.
no decision has been made yet on the protest; the app	plicant will be notified as soon as a decision is made.
4. Reminders	
Bureau. If the applicant wishes to avoid or postpone publication	te, the international application will be published by the International on, a notice of withdrawal of the international application, or of the n Rules 90bis.1 and 90bis.3, respectively, before the completion of the
International Bureau. The International Bureau will send a copy	the written opinion of the International Searching Authority to the y of such comments to all designated Offices unless an international. These comments would also be made available to the public but not
examination must be filed if the applicant wishes to postpone the	of some designated Offices, a demand for international preliminary entry into the national phase until 30 months from the priority date at 20 months from the priority date, perform the prescribed acts for
In respect of other designated Offices, the time limit of 30 months	s (or later) will apply even if no demand is filed within 19 months.
See the Annex to Form PCT/IB/301 and, for details about the ap Volume II, National Chapters and the WIPO Internet site.	oplicable time limits, Office by Office, see the PCT Applicant's Guide,
Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450	Authorized officer Mikund Shah Telephone No. (571) 272-1600

Facsimile No. (703) 305-3230 Form PCT/ISA/220 (January 2004)

(See notes on accompanying sheet)

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	
To: ARTHUR S. GARRETT FINNEGAN, HENDERSON, FARABOW, GARRETT AND DUNNER L.L.P. 1300 I STREET, N.W. WASHINGTON, DC 20005-3315	PCT NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION (PCT Rule 44.1)
	Date of mailing (day/month/year) 04 MAR 2005
Applicant's or agent's file reference 9367.054-304	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/US04/09274	International filing date (day/month/year) 09 April 2004 (09.04.2004)
Applicant CYTOKINETICS, INC.	
The applicant is hereby notified that the international search have been established and are transmitted herewith.	h report and the written opinion of the International Searching Authority
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claim	ms of the international application (see Rule 46):
When? The time limit for filing such amendments is a search report.	normally two months from the date of transmittal of the international
Where? Directly to the International Bureau of WIPO, 1211 Geneva 20, Switzerland, Facsimile No.:	
For more detailed instructions, see the notes on the acc	•
2. The applicant is hereby notified that no international search Article 17(2)(a) to that effect and the written opinion of the	report will be established and that the declaration under International Searching Authority are transmitted herewith.
3. With regard to the protest against payment of (an) addition	nal fee(s) under Rule 40.2, the applicant is notified that:
request to forward the texts of both the protest and the	-
no decision has been made yet on the protest; the appli	icant will be notified as soon as a decision is made.
Bureau. If the applicant wishes to avoid or postpone publication.	the international application will be published by the International, a notice of withdrawal of the international application, or of the Rules 90bis.1 and 90bis.3, respectively, before the completion of the
International Bureau. The International Bureau will send a copy of	ne written opinion of the International Searching Authority to the of such comments to all designated Offices unless an international These comments would also be made available to the public but not
examination must be filed if the applicant wishes to postpone the e	f some designated Offices, a demand for international preliminary many into the national phase until 30 months from the priority date a 20 months from the priority date, perform the prescribed acts for
In respect of other designated Offices, the time limit of 30 months (
Volume II, National Chapters and the WIPO Internet site.	licable time limits, Office by Office, see the PCT Applicant's Guide,
Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US	Authorited officer 10 Boll Hans

Facsimile No. (703) 305-3230 Form PCT/ISA/220 (January 2004)

Commissioner for Patents P.O. Box 1450

Alexandria, Virginia 22313-1450

(See notes on accompanying sheet)

Telephone No. (571) 272-1600

ARticle 19 dut 5/4/25 write Opins due 6/4/25

3-7-08

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 9367.054-304		Form PCT/ISA/220 ere applicable, item 5 below.
International application No. PCT/US04/09274	International filing date (day/month/year) 09 April 2004 (09.04.2004)	(Earliest) Priority Date (day/month/year) 10 April 2003 (10.04.2003)
Applicant CYTOKINETICS, INC.		
	n prepared by this International Searching appy is being transmitted to the International	
This international search report consists It is also accompanied	of a total of 2 sheets. I by a copy of each prior art document cite	d in this report.
Basis of the Report With regard to the language, the language in which it was filed, u	international search was carried out on the buless otherwise indicated under this item.	easis of the international application in the
	search was carried out on the basis of a trans rity (Rule 23.1(b)).	slation of the international application
b With regard to any nucleoti	de and/or amino acid sequence disclosed in	the international application, see Box No.
	unsearchable (See Box No. II)	
4. With regard to the title,		
the text is approved as subm	itted by the applicant. by this Authority to read as follows:	
	oy and readily to road an road way.	
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 With regard to the abstract, the text is approved as submi 	tted by the applicant.	
the text has been established,	according to Rule 38.2(b), by this Authority ne month from the date of mailing of this inte	as it appears in Box No. IV. The rnational search report, submit comments
6. With regard to the drawings, a. the figure of the drawings to be n	ublished with the abstract is Figure No.	
as suggested by the a		-
	athority, because the applicant failed to sugge	=
	thority, because this figure better characteriz	zes the invention.

Form PCT/ISA/210 (first sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/09274

A. CLASSIFICATION OF SUBJECT MATTER		
IPC(7) : C07D 273/02; A61K 31/5395		
US CL : 544/68; 514/229.2		
According to International Patent Classification (IPC) or to b	oth national classification and IPC	
B. FIELDS SEARCHED		
Minimum documentation searched (classification searched	11 1 100	
Minimum documentation searched (classification system follo U.S.: 544/68; 514/229.2	wed by classification symbols)	
Documentation searched other than minimum documentation of	to the extent that such documents are include	d in the fields searched
Electronic data base consulted during the international search STN, EAST	(name of data base and, where practicable, s	cearch terms used)
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category * Citation of document, with indication, when	e appropriate, of the relevant passages	Relevant to claim No.
X SANTILLI, ET AL. Journal of Heterocyclic Ch	emistry 1979, 16(2), 213-16	1-45
	y , (- -); 10.	1-47
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Forther demonstrate 15 and 15		
Further documents are listed in the continuation of Box C.	See patent family annex.	
Special categories of cited documents:	"T" later document published after the intern	ational filing date or priority
A" document defining the general state of the art which is not considered to be of particular relevance	date and not in conflict with the applicati principle or theory underlying the inventi	on but cited to understand the
E* earlier application or patent published on or after the international filing date	"X" document of particular relevance; the cla considered novel or cannot be considered	imed invention cannot be to involve an inventive sten
document which may throw doubts on priority claim(s) or which is cited to	when the document is taken alone	
establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the cla	imed invention cannot be
. ,	considered to involve an inventive sten w	hen the document is
O" document referring to an oral disclosure, use, exhibition or other means	combined with one or more other such do being obvious to a person skilled in the ar	coments such combination
document published prior to the international filing date but later than the		1
priority date claimed	"&" document member of the same patent fam	ily
ate of the actual completion of the international search	Date of mailing of the	
	Date of mailing of the international search	report
Pebruary 2005 (02.02.2005)	04 MAR, 2005,	ł
ame and mailing address of the ISA/US	Authorizations	
Mail Stop PCT, Atn: ISA/US	1 (MULL) 10 /130/1-	Gerreft
Commissioner for Patents P.O. Box 1450	MILKURO-SMAN CONTROL C	WWW ALL
Alexandria, Virginia 22313-1450	Telephone No. (571) 272-1600	ν
csimile No. (703) 305-3230	, ,,=:=	

Form PCT/ISA/210 (second sheet) (January 2004)

PATENT COOPERATION TRUATY

From the INTERNATIONAL SEARCHING AUTHORITY ARTHUR S. GARRETT FINNEGAN, HENDERSON, FARABOW, GARRETT AND DUNNER L.L.P. WRITTEN OPINION OF THE 1300 I STREET, N.W. INTERNATIONAL SEARCHING AUTHORITY WASHINGTON, DC 20005-3315 (PCT Rule 43bis.1) Date of mailing (day/month/year) FOR FURTHER ACTION Applicant's or agent's file reference See paragraph 2 below 9367.054-304 International application No. International filing date (day/month/year) Priority date (day/month/year) 10 April 2003 (10.04.2003) PCT/US04/09274 09 April 2004 (09.04.2004) International Patent Classification (IPC) or both national classification and IPC IPC(7): C07D 273/02; A61K 31/5395 and US Cl.: 544/68; 514/229.2 Applicant CYTOKINETICS, INC. 1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis (b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. 3. For further details, see notes to Form PCT/ISA/220. Bell-Harre for Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US

Telephone No. (571) 272-1600

Form PCT/ISA/237 (cover sheet) (January 2004)

Alexandria, Virginia 22313-1450

Commissioner for Patents P.O. Box 1450

Facsimile No. (703) 305-3230

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

	_
International application No.	
PCT/US04/09274	

Box N	o. I Basis of this opinion	
1. With	egard to the language, this opinion has been established on the basis of the international application in the language	e in which
	filed, unless otherwise indicated under this item.	v III william
	This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1)	
	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary divention, this opinion has been established on the basis of:	y to the
a.	type of material	
	a sequence listing	
	table(s) related to the sequence listing	
b.	format of material	
	in written format	
	in computer readable form	
c.	time of filing/furnishing	
	contained in international application as filed.	
	filed together with the international application in computer readable form.	
	furnished subsequently to this Authority for the purposes of search.	, •
3. 🗌	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto he filed or furnished, the required statements that the information in the subsequent or additional copies is identical to the application as filed or does not go beyond the application as filed, as appropriate, were furnished.	
4. Additi	nal comments:	
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*		

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/09274

1. Statement				
Novelty (N)	Claims	NONE	YES	
	Claims	1-45	NO	
Inventive step (IS)	Claims	NONE	YES	
	Claims	1-45	NO	
Industrial applicability (IA)	Claims	1-45	YES	
•	Claims	NONE	NO	

2. Citations and explanations:

Claims 1-45 lack novelty under PCT Article 33(2) as being anticipated by Santilli et al. (Journal of Heterocyclic Chemistry, 1979, 16(2), 213-16). Cited reference on page 215 (Table II) discloses compound Ve that is the same as applicants.

Claims 1-45 lack an inventive step under PCT Article 33(3) as being obvious over Santilli et al. (Journal of Heterocyclic Chemistry, 1979, 16(2), 213-16). Cited reference teach on page 215 (Table II) compounds Ve and Vf that are almost the same as applicants. The only difference is that the prior art compounds have R4 and R4' = =CH=CO-OMe and the carbon bearing R2 and R2' is substituted by oxo group instead of H or alkyl. It is obvious to one skilled in the art at the time of the invention to modify the =CHCO-OMe to =CHMe2 or the C=O substituent to -CH2- group using fairly a simple organic technique and use the compounds as modulators of KSP kinesin.

Claims 1-45 meet the criteria set out in PCT Article 33(4), and thus the 1,2,4-oxadiazine compounds have industrial applicability because the subject matter claimed can be made or used in industry.

NOTESTO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended

During the international phase, the claims may also be amenced (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must inclicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged:
- (ii) the claim is cancelled;
- (iii) the claim is new:
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where onginally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers, claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]:
 "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the Language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's amention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated elected Office, see the PCT Applicant's Guide, Volume II.